

Title (en)
DRY-PROCESS TONER

Publication
EP 0048762 B1 19851106 (EN)

Application
EP 81900939 A 19810402

Priority
JP 4386080 A 19800403

Abstract (en)
[origin: WO8102935A1] A single component type dry-process electrophotographic developing agent having improved hygroscopic properties, comprising a mixture of a 5 to 50(Alpha) size toner and a hydrophobic fluidizing agent, The fluidizing agent is prepared by coating an inorganic powder, organic powder, metal powder, or alloy powder with a non-hydrophilic synthetic resin thin film . Use of a conductive material as a core of the fluidizing agent and selection of a thin resin film thickness within a range to produce electron or ion tunnelling results in the formation of a fluidizing agent with no hygroscopic properties and which is electrically conductive.

IPC 1-7
G03G 9/08; G03G 9/10

IPC 8 full level
G03G 9/08 (2006.01); **G03G 9/087** (2006.01); **G03G 9/09** (2006.01); **G03G 9/097** (2006.01); **G03G 9/10** (2006.01)

CPC (source: EP US)
G03G 9/097 (2013.01 - EP US); **G03G 9/09716** (2013.01 - EP US); **G03G 9/09733** (2013.01 - EP US); **G03G 9/09775** (2013.01 - EP US); **G03G 9/10** (2013.01 - EP US); **Y10S 430/104** (2013.01 - EP US); **Y10T 428/2995** (2015.01 - EP US); **Y10T 428/2998** (2015.01 - EP US)

Citation (examination)
• JP S5252639 A 19770427 - MITA INDUSTRIAL CO LTD
• JP S5381125 A 19780718 - RICOH KK
• JP S5387734 A 19780802 - RICOH KK
• JP S5394932 A 19780819 - HITACHI METALS LTD
• JP S5646250 A 19810427 - NIPPON PAINT CO LTD
• GB 1563208 A 19800319 - MITA INDUSTRIAL CO LTD
• US 4264698 A 19810428 - TAKAYAMA HIROSHI, et al

Cited by
US6583886B1; DE3918084A1; GB2170917A; GB2170917B; EP0225547A1; US4803143A

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
WO 8102935 A1 19811015; EP 0048762 A1 19820407; EP 0048762 A4 19820303; EP 0048762 B1 19851106; JP S56140356 A 19811102; US 4395485 A 19830726

DOCDB simple family (application)
JP 8100073 W 19810402; EP 81900939 A 19810402; JP 4386080 A 19800403; US 32117881 A 19811109